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AMENDMENT TO THE CLAIMS

- 1-21. (Canceled)
- 22. (Currently Amended) A method comprising:

receiving a photoelectrically induced signal in an array of photoreceptors on a semiconductor substrate;

controlling each photoreceptor in the array of photoreceptors to simultaneously initiate a common integration period;

at the end of each integration period, controlling each photoreceptor in the array of photoreceptors to transfer its photoelectrically induced signal to a respective separated storage node located within a semiconductor well region formed in the semiconductor substrate; and

preventing said separated storage node from integrating charge.

- 23. (Canceled)
- 24. (Currently Amended) A method as in claim [[23]] <u>22</u>, wherein said preventing comprises shielding said separated storage node with a light shield overlying at least said separated storage node.
- 25. (Currently Amended) A method as in claim [[23]] <u>22</u>, wherein said preventing comprises shielding said separate semiconductor well with a light shield overlying said semiconductor well.
 - 26. (Canceled)

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27. (Original) A method as in claim 25, further comprising enabling a first reset operation which resets a value of said storage node, and enabling a second reset operation, which resets a value of said photoreceptor.

- 28. (Previously Presented) A method as in claim 27, wherein said first and second reset operations each comprises activating a gate within said semiconductor well.
- 29. (Previously Presented) A method as in claim 28, wherein said photoelectrically induced signal is a signal indicative of charge produced by said photoreceptor during said integration period.
- 30. (Original) A method as in claim 28, wherein said photoreceptor includes a photodiode.
- 31. (Original) A method as in claim 28, wherein said photoreceptor includes a photogate.
- 32. (Previously Presented) A method as in claim 25, further comprising preventing said photoreceptor from acquiring a photoelectrically induced signal which is greater than a pre-determined amount.
- 33. (Original) A method as in claim 25, further comprising forming a second separated semiconductor well for each of the plurality of photoreceptors in the array.
 - 34-52. (Canceled)
 - 53. (Previously Presented) A method comprising:

forming a photosensor in a substrate, the photosensor for forming charges in response to applied light;

forming a first well region in the substrate, the first well region being separated from the photosensor and being doped to a first conductivity type;

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forming a storage region located in the first well region, the storage region for collecting charge generated by the photosensor and being doped to a second conductivity type; and

shielding at least a portion of the storage region by forming a shielding layer over the storage region.

- 54. (Previously Presented) The method of claim 53, wherein the storage region comprises a p-type region and the first well region comprises an n-well.
- 55. (Currently Amended) The method of claim 53, further comprising the act of forming a second well region surrounding such that said photosensor is located within said second well region.
- 56. (Previously Presented) The method of claim 55, wherein said first and said second well regions are n-well regions.
- 57. (Previously Presented) The method of claim 53, wherein the act of shielding at least a portion of the storage region comprises forming a metal light shield layer over the first well region.
- 58. (Previously Presented) The method of claim 53, wherein the act of forming a photosensor comprises one of forming a photodiode and forming a photogate.